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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,747	(09/26/2003	Dror Nir	U 014817-5 1019	
140	7590	07/07/2005		EXAMINER	
LADAS &			JAWORSKI, FRANCIS J		
26 WEST 6 NEW YORK		-	•	ART UNIT PAPER NUMBER	
	,			3737	
				DATE MAIL ED: 07/07/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/672,747	NIR, DROR				
Office Action Summary	Examiner	Art Unit				
	Jaworski Francis J.	3737				
The MAILING DATE of this communication app Period for Reply			iress –			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thiny (30) days, a rep- il NO period for reply is specified above, the minimum statutory period. Failure to reply within the set or extended period for reply wail, by shatuff Any reply received by the Office bater than three months after the mailing armed patent term odjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be the law of the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the course the until which the become ABANDONE of course the until which the become ABANDONE.	nety fited is will be considered timely the mailing date of this co ID (35 U.S.C. § 133).	mmunication.			
Status						
1) Responsive to communication(s) filed on 26.5	September 2003.					
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under	Ex parte Qua <u>y</u> le, 1935 C.D. 11, 4	53 O.G. 213.	•			
Disposition of Claims			·			
4) Claim(s) 8-10 and 18-21 is/are pending in the						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>8-10 and 18-21</u> is/are rejected.						
7) Claim(s) is/are objected to.	startion requirement					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers			•			
9) The specification is objected to by the Examin						
10) The drawing(s) filed on 26 September 2003 is	/are: a)⊠ accepted or b)⊡ obje	cted to by the Exar	niner.			
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is of	bjected to. See 37 Cl	FR 1,121(d).			
11) The oath or declaration is objected to by the E	xaminer. Note the attached Offic	e Action of tomic P	U-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
1. Certified copies of the priority documer	ats have been received.					
2. Certified copies of the priority documer		tion No				
3. Copies of the certified copies of the pri	onty documents have been received	ed in this National	Stage			
application from the International Bure						
 See the attached detailed Office action for a list 	t of the certified copies not receiv	ed.				
Attachment(s)	4) 🔲 Interview Summar	w (PTO-413)				
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>26 September 2003</u> .	5) Notice of informal 6) Other:	Patent Application (PT	D-152)			
S Param and Tradomark Office PTOL-326 (Rev. 1-64) Office i	Action Summary F	art of Paper No./Mail D	ale 06252005			

Application/Control Number: 10/672,747

Art Unit: 3737

Page 2

DETAILED ACTION

Claim Rejections - 35 USC § 102/103

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in-which the invention was made.

Claims 8-10 and 18-21 are present for examination per September 26,2003 pre-amdt.

Claims 8-9 and 18-20 are rejected under 35 U.S.C. 102(b,e) as being anticipated by Giger et al (US5657362) or in the alternative as obvious based upon Giger et al (US2001/0043279) or Gilhuijs et al (US6317617).

The former teaches thresholding to determine benign versus malignant mammograms with classification being tissue texture or irregularity-based histogram calculations and analysis done by the processor engine of an expert system performing computer-assisted diagnosis. The radiogram is argued to be produced by a process which involves attenuation of x-radiation and therefore is related to scattered or reflected radiation.

However if the former be argued to not represent detection of reflected or scattered waves in the sense of through-transmission radiographs then it would have

Page 3

Application/Control Number: 10/672,747

Art Unit: 3737

been obvious in view of the latter to use ultrasound per para [0070] of the published application or from Gilhuijs et al since ultrasound mammograms may be derived with out exposing the patient to harmful ionizing radiation.

Claims 10 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giger et al '362 alone or further in view of Giger et al as applied to claims 9, 20 above, and further in view of Gilhuijs et al since the latter teaches the suitability of Fourier analysis by the neural network for evaluating texture abnormalities of tissue, see col. 12 lines 38-51 as exemplary.

Nishikawa et al (US6058322 and 5598481) and Asada et al (US5463548) are representative of neural network-based and wavelet-based analyses for discriminating malignant tissue based upon texture.

Miller (US6393157) discusses wavelet versus Fourier/entropy analyses for this purpose.

Smith et al (US5644232) is representative of an MRI-based system which uses thresholding and tissue texture/irregularity analysis by a neural network including entropy analysis to categorize tissue to determine if malignant.

Any inquiry concerning this communication should be directed to Jaworski Francis J. at telephone number 571-272-4738

FJJ:fjj

06252005

Francis J. Jaworski Primary Examiner